AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of the claims:

- 1. (Currently amended) A method for screening compounds useful for the treatment of proliferative and differentiative disorders comprising contacting a compound with a cell or a cell extract expressing either Cks1 and Skp2, or Cks1, p27 and Skp2, and detecting a change in the activity of Skp2 binding activity or Skp2 ubiquitin ligase activity.
- 2. (Currently amended) The method of Claim 1 wherein the change in the activity of Skp2 binding activity is detected by detecting a change in the interaction binding of Skp2 with either p27 or Cks1.
- 3. (Currently amended) The method of Claim 1 wherein the change in the activity of Skp2 ubiquitin ligase activity is detected by detecting a change in the ubiquitination of p27 or degradation of p27 or Cks1 a Skp2-specific substrate.
- 4. (Currently amended) A method for screening compounds useful for the treatment of proliferative and differentiative disorders comprising adding a compound in a purified system to a mixture containing either Cks1 and Skp2, or Cks1, p27 and Skp2, and detecting a change in the activity of Skp2 binding activity or Skp2 ubiquitin ligase activity.
- 5. (Currently amended) The method of Claim 4 wherein the change in the activity of Skp2 binding activity is detected by detecting a change in the interaction binding of Skp2 with either p27 or Cks1.
- 6. (Currently amended) The method of Claim 4 wherein the change in the activity of Skp2 ubiquitin ligase activity is detected by detecting a change in the ubiquitination of p27 or degradation of p27 or Cks1 a Skp2-specific substrate.
- 7. (Currently amended) A method for screening compounds useful for the treatment of proliferative and differentiative disorders comprising:

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- (a) adding a compound in a purified system to a mixture containing Skp2 and one or both of: (i) a polypeptide corresponding to the carboxy terminus of the human p27 chain having the sequence NAGSVEWTPKKPGLRRRQT (SEQ. ID. NO: 91) with or without a phosphothreonine at position 8 and (ii) Cks1; and
- (b) detecting a change in the activity of Skp2 interaction of Skp2 with Cks1 or the polypeptide.
- 8. (Currently amended) The method of Claim 7 wherein the change in the activity of Skp2 interaction of Skp2 with Cks1 or the polypeptide is detected by detecting a change in the interaction binding of Skp2 with to either the polypeptide or Cks1.
- 9. (Currently amended) The method of Claim 7 wherein the change in the activity of Skp2 interaction of Skp2 with Cks1 or the polypeptide is detected by detecting a change in the ubiquitination of the polypeptide or degradation of the polypeptide or Cks1.
- 10. (New) A method for screening compounds useful for the treatment of proliferative and differentiative disorders comprising:
 - (a) adding a compound in a purified system to a mixture containing Skp2 and one or both of: (i) a polypeptide corresponding to the carboxy terminus of the human p27 chain having the sequence NAGSVEWTPKKPGLRRRQT (SEQ. ID. NO: 91) with or without a phosphothreonine at position 8 and (ii) Cks1; and
 - (b) detecting a change in Skp2 ubiquitin ligase activity.
- 11. (New) The method of Claim 10 wherein the change in Skp2 ubiquitin ligase activity is detected by detecting a change in the ubiquitination or degradation of the polypeptide or a Skp2-specific substrate.
- 12. (New) The method of Claim 3, 6, or 11 wherein the Skp2-specific substrate is p27.
- 13. (New) A method for screening compounds useful for the treatment of proliferative and differentiative disorders comprising contacting a compound with a cell or a cell extract

expressing Cks1, p27 and Skp2, and detecting a change in Skp2 binding activity or Skp2 ubiquitin ligase activity.

- 14. (New) The method of Claim 13 wherein the change in Skp2-binding activity is detected by detecting a change in the binding of Skp2 with either p27 or Cks1.
- 15. (New) The method of Claim 13 wherein the change in the Skp2 ubiquitin ligase activity is detected by detecting a change in the ubiquitination or degradation of p27.
- 16. (New) A method for screening compounds useful for the treatment of proliferative and differentiative disorders comprising adding a compound in a purified system to a mixture containing Cks1, p27 and Skp2 and detecting a change in Skp2 binding activity or Skp2 ubiquitin ligase activity.
- 17. (New) The method of Claim 16 wherein the change in Skp2-binding activity is detected by detecting a change in the binding of Skp2 with either p27 or Cks1.
- 18. (New) The method of Claim 16 wherein the change in the Skp2 ubiquitin ligase activity is detected by detecting a change in the ubiquitination or degradation of a Skp2-specific substrate.
- 19. (New) The method of Claim 16 wherein the Skp2-specific substrate is p27.
- 20. (New) The method of Claim 1 or 13 wherein the cell or cell extract further expresses Cyclin E and Cdk2.
- 21. (New) The method of Claim 4, 7, 10, or 16 wherein the system further contains Cyclin E and Cdk2.

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